



JC02 Rec'd PCT/PTC 21 MAR 2005  
PCT

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q86186

KIM, Yong-Nyun

Appln. No.: 10/523,993

Group Art Unit: Unknown

Confirmation No.: Unknown

Examiner: Unknown

Filed: February 9, 2005

For: CAP OF TUBE FOR SUPPLYING LIQUID

**REQUEST FOR REFUND**

**MAIL STOP 16**

Director of the U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants hereby respectfully request a refund in the amount of \$50.00 (small entity status).

This refund is to be credited to Deposit Account No. 19-4880.

Applicants believe that revised 37 C.F.R. § 1.492 allows reduced search and examination fees for applications in which the national fee was not filed before December 8, 2004. The above-referenced application was filed on February 9, 2005, with a copy of the International Search Report. (A copy of the transmittal letter, PTO stamped Serial Number Card and ISR is attached.) Therefore, Applicants believe they are entitled to the reduced fee. A duplicate copy of this paper is also attached.

Respectfully submitted,

John T. Callahan  
Registration No. 32,607

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: March 21, 2005



REQUEST FOR EARLY NOTIFICATION OF SERIAL NUMBER

**DT07 Rec'd PCT/PTO 09 FEB 2005**

Inventor(s): Yong-Nyun KIM

Title: CAP OF TUBE FOR SUPPLYING LIQUID

Atty Doc. #: Q86186 Client: CHAE & SONG PATENT &  
TRADEMARK OFFICE

Filing Date: February 9, 2005 # Pgs. Spec/Abst: 12 #Claims: 10

# Dwg. Sheets: 3 Decl No Prelim Amdt Yes

International Search Report and Form PTO/SB/08 A&B: Yes

Pr Doc: No Asgmt: No Fee: \$500.00

☒ Check Attached ☐ Charge to Deposit # 19-4880

Atty/Sec: JTC/SXL/mcl

**10/523993**

**BEST AVAILABLE COPY**

February 9, 2005

**MAIL STOP PCT**

Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

PCT/KR2003/001580  
-filed August 6, 2003

Re: Application of Yong-Nyun KIM  
CAP OF TUBE FOR SUPPLYING LIQUID  
Our Ref: Q86186

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- ☐ a copy of the executed Declaration and Power of Attorney.
- ☒ an English translation of the International Application.
- ☒ 3 sheets of drawings.
- ☐ an English translation of Article 19 claim amendments.
- ☐ an English translation of Article 34 amendments (annexes to the IPER).
- ☐ a copy of the executed Assignment and PTO 1595 form.
- ☒ a PTO/SB/08 A & B (modified) listing the ISR/IPER references. Also enclosed is a copy of the ISR.
- ☐ a copy of each reference cited in the ISR/IPER.
- ☒ a Preliminary Amendment
- ☒ The Abstract that appears on the cover page of the pamphlet published by the International Bureau of WIPO (WO 2004/089501) is to be used by the USPTO. *See* MPEP § 1893.03(e).
- ☒ **it is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f)**

It is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.



**MAIL STOP PCT**  
Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

**Q86186**  
PCT/KR2003/001580  
-filed August 6, 2003

Applicant claims benefit of small entity status in accordance with 37 CFR § 1.27.

The Government filing fee is calculated as follows (**Small Entity fees apply**):

Total claims	<u>10</u>	-	20	=	<u>0</u>	x	\$25.00	=	<u>\$0.00</u>
Independent claims	<u>1</u>	-	3	=	<u>0</u>	x	\$100.00	=	<u>\$0.00</u>
Base Fee									<u>\$150.00</u>
Search Fee									<u>\$250.00</u>
Examination Fee									<u>\$100.00</u>
<b>TOTAL FEE</b>									<u><b>\$500.00</b></u>

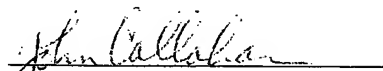
A check for the statutory filing fee of \$500.00 is attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this transmittal letter is attached.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Korea	10-2002-47128	August 9, 2002
Korea	10-2002-73983	November 26, 2002

Respectfully submitted,

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WASHINGTON OFFICE  
**23373**  
CUSTOMER NUMBER

Date: February 9, 2005

**A. CLASSIFICATION OF SUBJECT MATTER****IPC 7 A61M 39/20**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 226997 Y1 (KIM Yong-Nyum) 15 Jun. 2001	1-10
A	EP 0406584 A1 (Terumo Co., Ltd) 09 Jan. 1991	1-10
A	US 4596557 A (Pexa) 24 Jun. 1986	1-10
A	US 4445896 A (Gianturco) 01 May 1984	1-10
A	US 4597758 (Aalto et al.) 01 Jul. 1986	1-10
A	US 4624664 (Peluso et al.) 25 Nov. 1986	1-10

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

09 DECEMBER 2003 (09.12.2003)

Date of mailing of the international search report

10 DECEMBER 2003 (10.12.2003)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, Ki Yong

Telephone No. 82-42-481-5975



## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR03/01580

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR0226977Y1	15.06.2001	none	
EP0406584A1	09.01.1991	DE69012236D1	13.10.1994
		DE69012236T2	22.12.1994
		EP0406584A1	09.01.1991
		JP3012171A	21.01.1991
US4596557A	24.06.1986	none	
US4445896A	01.05.1984	none	
US4597758A	01.07.1986	none	
US4624664A	25.11.1986	none	